PARNOV, Ye.I.; ORSHANSKIY, R.B.; ANTONOVA, M.M., red.; PEVZNER, V.I., tekhn. red.

[Restored sun; about peat] Vozvrashchennoe solntse (o torfe) Moskva, Gos. izd-vo sel'khoz. lit-ry, 1960. 87 p. (MIRA 14:8)
(Peat)

KOPEL'KIYEVSKIY, Grigoriy Vasil'yevich; ANTONOVA, M.M., red.;
GUREVICH, M.M., tekhn.red.

[Buckwheat culture] Kul'tura grechikhi. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1960. 92 p.

(Buckwheat) (MIRA 13:11)

SEMIKHNENKO, Pavel Grigor'yevich, kand.sel'skokhoz.nauk; KLYUCHNIKOV, A.I., kand.sel'skokhoz.nauk; TOKAREV, T.M., kand.sel'skokhoz.nauk; YAGODKINA, V.P.; PITERSKAYA, A.M.; ANTONOVA, M.M., red.; DEYEVA, V.M., tekhn.red.

[Sunflower cultivation] Kul'tura podsolnechnika. Moskva, Gos. izd-vo sel'khoz.lit-ry, 1960. 275 p. (MIRA 13:10)
(Sunflowers)

KAVUN, Vasiliy Mikhaylovich; BLAZHEVSKIY, Vasiliy Karpovich, kand. sel'khoz. nauk; ANTONOVA, M.M., red.; PROKOF'YEVA, L.N., tekhn. red.

[Our experience in growing buckwheat] Nash opyt vyrashchivaniia grechikhi. Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 31 p. (MIRA 14:11)

1. Predsedatel' kholkhoza imeni Stalina Bershadskogo rayona (for Kavun).

(Buckwheat)

MITROFANOV, A.S., kand. sel'khoz. nauk; ROZHKOV, M.M., kand. sel'khoz. nauk; ANTONOVA, M.M., red.; MAKHOVA, N.N., tekhn. red.; GUREVICH, N.N., tekhn. red.

[Spring and winter vetch] Vika; iarovaia i ozimaia. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1961. 101 p. (MIRA 14:7)
(Vetch)

VYSOTSKIY, A.A., kand.sel'skokhoz.nauk; KONYUSHKOV, N.S., kand.sel'skokhoz. nauk; MOVSISYANTS, A.P., kand.sel'skokhoz.nauk; TSATSENKIN, I.A., prof.; ANTONOVA, M.M., red.; DEYEVA, V.M., tekhn.red.

[Improvement and utilization of natural grasslands] Uluchshenie i ispol'zovanie prirodnykh kormovykh ugodii. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1961. 143 p. (MIRA 14:6)
(Pastures and meadows)

PEIVE, Ian Vol'demarovich, akademik; ANTONOVA, M.M., red.; TRUKHINA, O.N.,
tekhn. red.

[Trace elements and their importance for agriculture] Mikroelementy
i ikh znachenie v sel'skom khoziaistve. Moskva, Izd-vo sel'khoz.
lit-ry, zhurnalov i plakatov, 1961. 60 p. (MIRA 14:12)
(Agriculture) (Trace elements)

LYSENKO, T.D., akademik; ANTONOVA, M.M., red.; PROKOF'YEVA, L.N,
tekhn. red.

[Nutrition of plants and fertilization of fields] Pitanie rastenii i udobrenie polei. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1961. 15 p. (MIRA 15:4)
(Fertilizers and manures)

ANTONOVA, M.M., red.; PEVZNER, V.I., tekhn. red.

[Concise manual on fertilizers]Kratkii spravochnik po udobreniiam. Moskva, Sel'khozgiz, 1961. 221 p. (MIRA 15:10)
(Fertilizers and manures)

ZOLOTAREV, Sergey Aleksandrovich, prof.; ANTONOVA, N.M., red.;
TRUKHINA, O.N., tekhn. red.

[Forests and soils of the Far East] Lesa i pochvy Dal'nego Vostoka. Moskva, Izd-vo sel'khoz.lit-ry zhurnalov i plakatov, 1962. 168 p. (MIRA 15:5)
(Soviet Far East—Forest soils)

ANTONOVA, M.M., red.; SOKOLOVA, N.N., tekhn. red.

[Forage beans]Kormovye boby; sbornik statei. Moskva, Sel'khozizdat, 1962. 318 p. (MIRA 15:12)
(Broad bean)

CHEKANOVA, Nina Ignat'yevna, Geroy Sotsialisticheskogo Truda;
ANTONOVA, M.M., red.; TRUKHINA, O.N., tekhn. red.

[Beans as a valuable forage crop in row-crop rotations]Boby - tsennaia kormovaia kul'tura propashnoi sistemy zemledeliia. Moskva, Sel'khozizdat, 1962. 46 p. (MIRA 16:1)
(Altai Territory—Broad bean)

VOSHCHININ, P.A., kand. sel'khoz.nauk; GRINCHUK, I.M., inzh.; ZHURAVLEV, A.A., kand. sel'khoz. nauk; KARAVYANSKIY, N.S., kand. sel'khoz. nauk; SHAIN, S.S., doktor sel'khoz. nauk, prof.[deceased]; YATSUK, Ye.P., kand. tekhn. nauk; ANTONOVA, M.M., red.; GINZBURG, A.S., tekhn.red. KOBYAKOVA, G.N., tekhn. red.

[Seed production of meadow grasses] Semenovodstvo lugovykh trav. [By] P.A.Voshchinin i dr. Moskva, Sel'khozizdat, 1963. 151 p. (MIRA 17:4)

DOYARENKO, Aleksey Grigor'yevich; ANTONOVA, M.M., red.; BELOVA,
N.N., tekhn. red.

[Entertaining agronomy] Zanimatel'naia agronomiia. 2. izd.
Moskva, Sel'khozizdat, 1963. 182 p. (MIRA 16:9)
(Agriculture)

[illegible], V.N., kand. biol. nauk, laureat Leninskoy premii;
ANTONOVA, M.A., red.

[The Mironovka 264 and 808 winter wheats] Ozimaia pshenitsa Mironovskaia 264 i Mironovskaia 808. Moskva, Izd-vo "Kolos," 1964. 71 p. (MIRA 17:6)

ANTONOVA, M.M., red.

[Corn in irrigated lands] Kukuruza na oroshaemykh zemliakh. Moskva, Kolos, 1964. 181 p. (MIRA 17:12)

STANKOV, Nikolay Zakharovich; [illegible], N.M., red.

[Root system of field crops] Kornevaia sistema polevykh kul'tur. Moskva, Izd-vo "Kolos," 1964. 280 p. (MIRA 17:8)

[illegible]

AUTHOR: Antonova, M. M.

TITLE: Determination of hydrogen in refractory metal hydrides

SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 11, 1964, 1408-1410

TOPIC TAGS: refractory metal hydride, transition metal hydride, zirconium hydride, titanium hydride, vanadium hydride, niobium hydride, hydride chemical analysis, hydrogen determination

ABSTRACT: A study was conducted of the conditions for combustion of titanium, zirconium, niobium, and vanadium hydrides in an oxygen current to determine hydrogen in these hydrides. The study was initiated in view of the increasing use of these hydrides in industry and research and the complexity of existing methods of hydrogen determination. Combustion was carried out in a quartz tubular reactor (description given). Hydrogen was determined as H_2O from the increase in weight of the absorption tubes. The optimum combustion temperatures

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L 14131-65
ACCESSION NR: AP4043100

were 900C for titanium hydride, 800C for zirconium hydride, 1000C for vanadium hydride, and 1100C for niobium hydride. The time required for the analysis is not more than 30 min. The relative experimental error for the hydrogen determination is about 1.5%. The analytical procedure is described. Orig. art. has: 1 figure and 2 tables.

ASSOCIATION: Institut problem materialovedeniya AN USSR, Kiev (Institute of Material Problems, AN UkrSSR)

SUBMITTED: 25Nov63 ENCL: 00 SUB CODE: MM, IC

NO REF SOV: 005 OTHER: 001 ATD PRESS: 3130

Card 2/2

MAGNITSKIY, K.P., doktor sel'khoz. nauk, red.; KHAR'KOV, D.V., kand. sel'khoz. nauk, red.[deceased]; ANTONOVA, M.M., red.

[Potassium fertilizers] Kaliinye udobreniia. Moskva, Kolos, 1964. 206 p. (MIRA 18:5)

1. Moscow. Nauchnyy institut po udobreniyam i insektofungitsidam.

ANTONOVA, M.M.

Determination of hydrogen in hydrides of refractory metals. Zhur. anal. khim. 19 no.11:1408-1410 '64.
(MIRA 18:2)

1. Institut problem materialovedeniya AN UkrSSR, Kiyev.

ANTONOVA, Mayya Maksimovna; SAMSONOV, G.V., red.; KILIEROG,
N.M., red.

[Properties of hydrides; a manual] Svoistva gidridov;
spravochnik. Kiev, Naukova dumka, 1965. 59 p.
(MIRA 18:5)

1. Chlen-korrespondent AN Ukr.SSR (for Samsonov).

had a density of 2.93-2.95 g/cm^3, porosity [illegible]

Card 1/2

[illegible]

ACCESSION NR: AP[illegible]

hydrogen. The sintering of zirconium is affected by the same factors as in the case of [illegible] studied [illegible] tabulated. The samples of [illegible] figures and [illegible]

ASSOCIATION: Institut problem materialov[illegible] AN UkrSSR (Institute of Materials [illegible] AN UkrSSR)

Card 2/2

ANTONOVA, M.M.

Chemical bond in transition metal hydrides. Izv.AN SSSR.Neorg.mat.
1 no.10:1758-1763 O '65.

(MIRA 18:12)

1. Institut problem materialovedeniya AN UkrSSR, Kiyev. Submitted
July 5, 1965.

L 10253-66 EWP(e)/EWT(m)/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c) JD/JG

ACC NR: AP6000001 SOURCE CODE: UR/0080/65/038/011/2393/2397

86
23

AUTHOR: Antonova, M. M.; Samsonov, G. V.
14 55 44 55

ORG: none

TITLE: Preparation of hydrides of transition metals of the fourth and fifth group of the periodic system
21 14, 55, 27

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 11, 1965, 2393-2397

TOPIC TAGS: inorganic synthesis, chemical reaction, hydrogen compound, hydride, transition metal, titanium, zirconium, vanadium, niobium, tantalum,
27 27 27 27

ABSTRACT: Reactions of powdered titanium, zirconium, niobium, vanadium, and tantalum with hydrogen have been studied to optimize the operating conditions (temperature and time) for preparing the richest in hydrogen hydrides of these metals. The study was prompted by expansion of potential technological uses of transition metal hydrides. The vacuum apparatus, starting materials, operating procedure, and analytical method of hydrogen determination in hydrides were described as common to all hydrides studied. The experimental data were tabulated for titanium and zirconium powders and tantalum shavings. Corresponding data for niobium and vanadium were given in the earlier studies of the authors [ZhFKh, 35, 900 (1961) and ZhPKh, 33, 1407 (1960)]. The optimum temperature and time of the reactions were given for preparation of $TiH_{1.93}$, ZrH_2, $VH_{0.915}$, NbH, and $TaH_{0.69}$. These compositions, with the exception of

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Card 1/2 UDC: 541.444+546.8+546.85

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ACC NR: AP6000001

0

NbH, contain the maximum absorbable hydrogen. The maximum absorbable hydrogen content in niobium was 63 at% which corresponds to NbH_2, but this phase was not detected in the product. The formation of hydrides was correlated with electron transfer from hydrogen to unfilled d-electron shells of the transition metal, and the hydrogen absorption was correlated with the acceptor capability of these shells. Orig. art. has: 5 figures and 2 tables. [JK]

SUB CODE: 07, 11 / SUBM DATE: 28Oct63/ ORIG REF: 007/ OTH REF: 003/
ATD PRESS: 4160

Card 2/2

L 40096-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/WW/JG

ACC NR: AP6019662 (N) SOURCE CODE: UR/0073/66/032/006/0555/0559 56 B

AUTHOR: Samsonov, G. V.; Antonova, M. M.

ORG: Institute of Materials Science Problems, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

6 21 21 21 21

TITLE: Phase diagrams of systems of hydrogen with titanium, zirconium, vanadium, and niobium 21

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 6, 1966, 555-559

TOPIC TAGS: titanium, zirconium, vanadium, niobium, metal hydride, PHASE DIAGRAM

ABSTRACT: Phases of the systems titanium-hydrogen, zirconium-hydrogen, vanadium-hydrogen, and niobium-hydrogen with compositions ranging from no hydrogen to $TiH_{1.93}$, ZrH_2, $VH_{0.915}$, NbH at room temperature were studied by x-ray diffraction. The distribution of the phase regions in the four systems is shown in Fig. 1. It is apparent that the lower boundaries of the region of homogeneity of the β-phase are shifted in a regular manner toward a lower hydrogen content on passing from titanium to niobium; this corresponds to the increase in the filling of the d-subshell of the corresponding transition metals. A satisfactory agreement between x-ray and pycnometric density values was found for the Zr-H and Nb-H systems; the discrepancy of these values in the Ti-H system is attributed to the fact that the hydrides studied

UDC: 669+621.386

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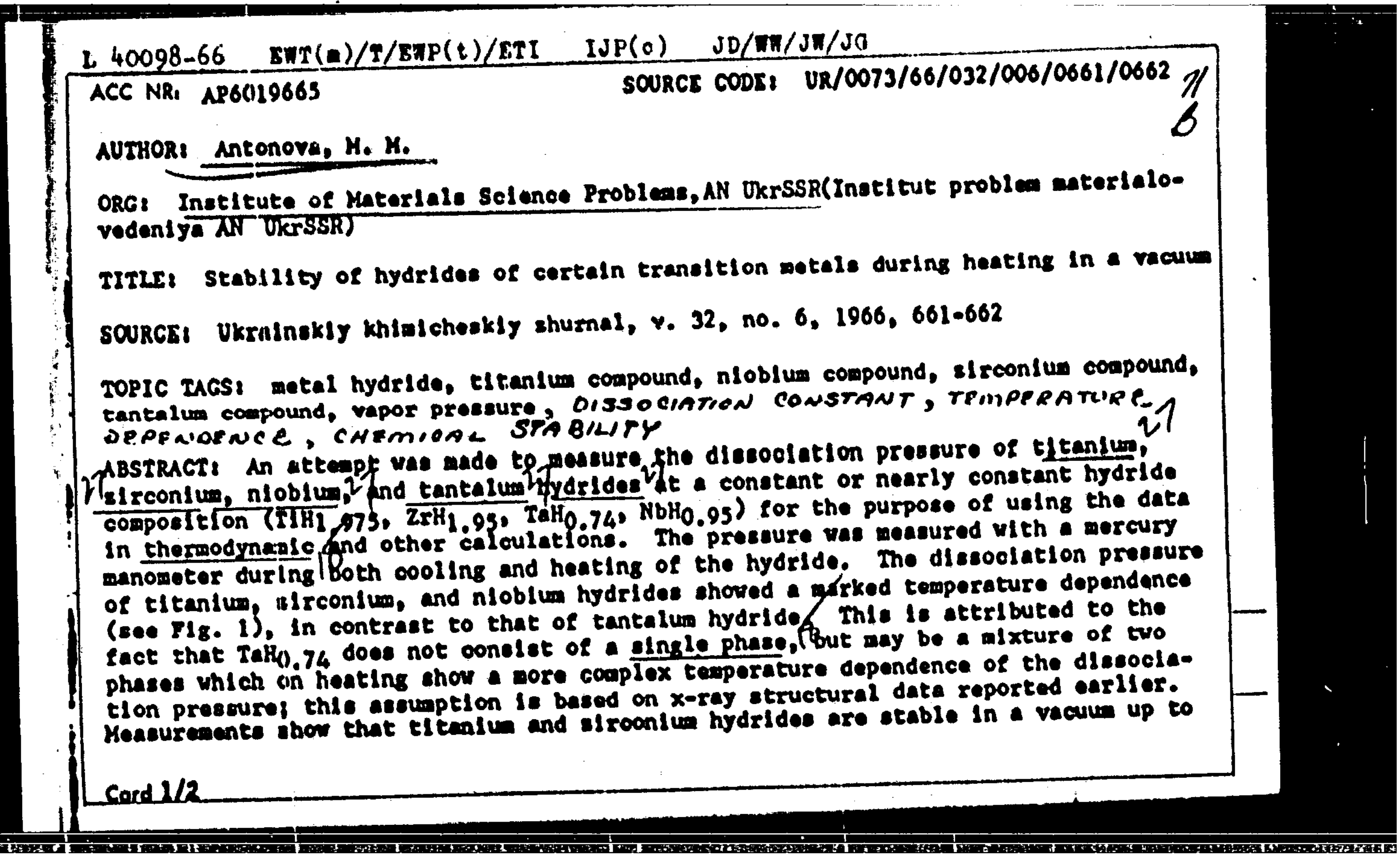

L 40098-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/WW/JW/JG

ACC NR: AP6019665 SOURCE CODE: UR/0073/66/032/006/0661/0662 11
6

AUTHOR: Antonova, M. M.

ORG: Institute of Materials Science Problems, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: Stability of hydrides of certain transition metals during heating in a vacuum

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 6, 1966, 661-662

TOPIC TAGS: metal hydride, titanium compound, niobium compound, zirconium compound, tantalum compound, vapor pressure, DISSOCIATION CONSTANT, TEMPERATURE DEPENDENCE, CHEMICAL STABILITY

ABSTRACT: An attempt was made to measure the dissociation pressure of titanium, zirconium, niobium, and tantalum hydrides at a constant or nearly constant hydride composition ($TiH_{1.975}$, $ZrH_{1.95}$, $TaH_{0.74}$, $NbH_{0.95}$) for the purpose of using the data in thermodynamic and other calculations. The pressure was measured with a mercury manometer during both cooling and heating of the hydride. The dissociation pressure of titanium, zirconium, and niobium hydrides showed a marked temperature dependence (see Fig. 1), in contrast to that of tantalum hydride. This is attributed to the fact that $TaH_{0.74}$ does not consist of a single phase, but may be a mixture of two phases which on heating show a more complex temperature dependence of the dissociation pressure; this assumption is based on x-ray structural data reported earlier. Measurements show that titanium and zirconium hydrides are stable in a vacuum up to

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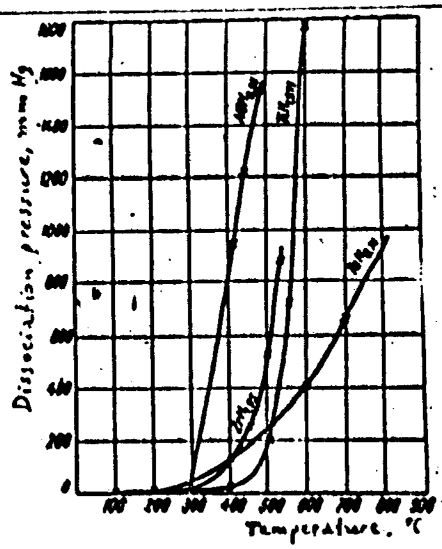

Fig. 1. Dissociation pressure of transition metal hydrides.

400°C, and niobium and tantalum hydrides up to 300°C. This is in good agreement with the large acceptor capacity of Ti and Zr for hydrogen, and the resultant strength of the bonding forces, manifested in a stronger holding of hydrogen in the Ti and Zr lattice as compared to Nb and Ta. Orig. art. has: 1 figure and 1 table.

SUB CODE: 07/ SUBM DATE: 09Jul64/ ORIG REF: 002/ OTH REF: 001

Card 2/2

ANTONOVA, M.V.

Epidemiology of paragonimasis; a survey of the literature.
Med. paraz. i paraz. bol. 34 no. 5:601-603 S-O '65
(MIRA 19:1)

1. Submitted February 11, 1965.

ANTONOVA, M.V.

Sanitary helminthological rating of vegetables intended for consumers supply. Gig. i san. 21 no.11:96 N '56. (MLRA 10:2)
(FOOD ADULTERATION AND INSPECTION)

ANTONOVA, M.V., kandidat meditsinskikh nauk

[redacted]

Third Congress of Korean Physicians. Gig. i san. 22 no.2:56-57 F '57
(PYONYANG--MEDICINE--CONGRESSES) (MIRA 10:4)

ANTONOVA, M.V., kand.med.nauk

Dehelminthization of sewage in sedimentation tank of the "Irrigation Fields" State Farm. Gig. i san. 23 no.6:79-80 Je '58 (MIRA 11:7)

1. Iz kafedry gigiyeny pitaniya Khar'kovskogo meditsinskogo instituta
(HELMINTHS,
dehelminthization of sewage in sedimentation tank of state fram in Russia. (Rus))
(SEWAGE,
same)

ANTONOVA, M.V., kand.med.nauk

Diagnosis of paragonimiasis. Vrach.delo no.3:317-318 Mr '60.
(MIRA 13:6)

1. Kafedra gigiyeny (zav. - M.V. Antonova) Ternopol'skogo meditsinskogo instituta.
(LUNGS--DISEASES)

SERGEYEVA, T.Ya.; TSAREGRADSKAYA, N.A.; POPOV, V.I.; ANTONOVA, M.Ye.;
PAVLOVICH, L.A.; SAKHAROVA, R.M.

Infecticus nature of atrophic rhinitis in young pigs. Veterinariia 37 no.4:38-44 Ap'60. (MIRA 16:6)

1. Nauchno-proizvodstvennaya laboratoriya po bor'be s boleznyami molodnyaka sel'skokhosyaystvennykh zhivotnykh Ministerstva sel'skogo khozyaystva RSFSR.
(SWINE—DISEASES AND PESTS)

MIKHAL'SKIY, G.A., kand.veterin.nauk; ANTONOVA, M.Yo., kand.veterin.nauk

Effectiveness of antipasteurellosis vaccines of strains AB and K. (MIRA 16:10)
Veterinariia 39 no.9:47-49 S '62.

1. Nauchno-proizvodstvennaya laboratoriya po bor'be s boleznyami molodnyaka sel'skokhozyaystvennykh zhivotnykh Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov RSFSR.

ANTONOVA, M.Ye., kand. veterin. nauk

Injecting a medicinal solution into a hen's egg without breaking the shell. Veterinariia 41 no.12:68-70 D '64. (MIRA 18:9)

1. Nauchno-proizvodstvennaya laboratoriya po bor'be s boleznyami molodnyaka sel'skokhozyaystvennykh zhivotnykh Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov RSFSR.

AKHMEDOV, A.M., prof.; DUSTOVA, R.T., aspirant; BELOV, Ye.M., kand. veterin. nauk; ANTONOVA, M.Ye., kand. veterin. nauk; NOSKOV, A.I., kand. veterin. nauk; LIPINA, A.N., aspirant; SIMONOV, A.P., aspirant; BOCHAROV, D.A., kand. sel'skokhoz. nauk; KHRENOV, N.M., assistent

Sanitary and veterinary hygiene. Veterinariia 41 no.4:89-100 Ap '64. (MIRA 17:8)

1. Samarkandskiy sel'skokhozyaystvennyy institut (for Akhmedov, Dustova). 2. Nauchno-proizvodstvennaya laboratoriya po bor'be s boleznyami molodnyaka sel'skokhozyaystvennykh zhivotnykh Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov RSFSR. (for Antonova). 3. Vsesoyuznyy nauchno- issledovatel'skiy institut veterinarnoy sanitarii (for Noskov). 4. Institut zhivotnovodstva Ministerstva sel'skogo khozyaystva Uzbekskoy SSR (for Lipina). 5. Vsesoyuznyy institut gel'mintologii imeni akademika K.I. Skryabina (for Simonov). 6. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (for Bocharov). 7. Khersonskiy sel'skokhozyaystvennyy institut imeni A.D. TSyurupy (for Khrenov).

VARSHAVSKIY, A.B., kand.med.nauk; ANTONOVA, N.A.

Chemodectoma of the middle ear. Zhur.ush., nos.i gorl.bol. 22 no.2:75-77 Mr-Ap '62. (MIRA 15:11)

1. Iz nauchno-issledovatel'skogo instituta bolezney ukha, gorla i nosa Ministerstva zdravookhraneniya RSFSR i Otorinolaringologicheskogo otdeleniya klinicheskoy bol'nitsy imeni S.P.Botkina.
(EAR--TUMORS)

TRET'YAKOVA, R. Ya., kand. med. nauk; ANTONOVA, N. A., mlad. nauch. sotrud.

Brill-Symmers disease with localization in the nose and nasopharynx. Vest. otorin. no.3:82-84 '61. (MIRA 14:12)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta ukha, gorla i nosa dir. - zasluzhennyy deyatel' nauki prof. V. K. Trutnev [deceased], Ministerstva zdravookhraneniya RSFSR, Moskva.

(LYMPHATICS--TUMORS)

ANTONOVA, N.A., mladshiy nauchnyy sotrudnik

Morphology of allergic nasal polypi. Vest. oto-rin. 25 no.2:17-23 Mr-Ap '63. (MIRA 17:1)

1. Iz patogistologicheskoy laboratorii (zav. - kand. med. nauk R.Ya. Tret'yakova) Nauchno-issledovatel'skogo instituta bolezney ukha, nosa i gorla (dir. - prof. N.A. Bobrovskiy), Moskva.

45257

S/226/62/000/006/008/016
E193/E383

18.1000

AUTHORS: Antonova, N.D., Kalinina, A.A. and Kudryavtsev, V.I.

TITLE: Preparation and some properties of materials based on silicaon carbide with boron and aluminium additions

PERIODICAL: Poroshkovaya metallurgiya, no. 6, 1962, 54 - 60

TEXT: The object of the present investigation was to explore the possibility of producing dense, sintered SiC compacts by using small quantities of boron or aluminium as the bonding agent. The experimental specimens (solid cylinders, 9 mm in diameter, 20 mm long and hollow cylinders with o.d. 20 mm, i.d. 10 mm, 20 mm long), containing 1, 3 and 5% B or 5, 7.5 or 10% Al (alloys B_1, B_2, B_5, A_5, $A_{7.5}$ and A_{10}, respectively) were prepared by sintering under pressure. The density of the sintered compacts was the main criterion of their quality. The highest density of alloys B_1, B_3 and A_5 was attained after sintering at 2 150 °C under a pressure of 450 kg/cm^2, the best results for the remaining alloys being obtained by sintering at 2 100 °C under the same pressure. The sintering conditions were rather critical, particularly for materials

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with a high boron or aluminium content, since a slight increase in the temperature caused a considerable proportion of the liquid phase to be squeezed out of the compact. The density of the B_3, B_5, $A_{7.5}$ and A_{10} alloys ranged from 90 to 97%, that of the B_1 and A_5 alloys not exceeding 85%. The specific gravity of the compacts varied between 3.148 g/cm^3 for the A_{10} alloy and 3.222 g/cm^3 for the B_1 alloy. The microhardness of the SiC-base solid solutions varied between 2 970 and 3 390 kg/mm^2. The highest and lowest values of other properties are given below: crushing strength - 72 kg/cm^2 (alloy B_5) and 15 kg/cm^2 (alloy B_1); electrical resistivity (Ωcm) - 5-38 (alloy B_3) and 0.1 - 0.7 (alloy A_{10}); resistance to overheating in terms of weight increase, g/cm^2 h x 10^{-3} = 0.43 (alloy A_5) and 0.03 - 0.1 (alloy B_3); resistance to thermal shock - alloys B_3, B_5 and A_5 withstood more than 100 tests consisting of oil-quenching from 1 200 °C, whereas alloys B_1, $A_{7.5}$ and A_{10} failed after 5 - 18 tests; thermal-expansion coefficient at 100 °C ($\alpha \times 10^{-6}$ $^{\circ}C^{-1}$) = 2.76 (alloy A_{10}) and 2.21 (alloy B_3).

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E193/E383

Preparation and some properties ....

The results so far obtained indicate that alloys B_3, B_5 and $A_{7.5}$ have the most promising properties and can be recommended as materials worth trying in various development work.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut abrazivov i shlifovaniya, g. Leningrad (All-Union Scientific Research Institute of Abrasives and Abrasion, Leningrad)

SUBMITTED: April 14, 1962

Card 3/3

1. ANTONOVA, N. F.

2. USSR (600)

4. Ascomycetes

7. A new fungus, Macidium theae. Bot. mat. Otd. spor. rast. 8, 1952.

9. **Monthly List of Russian Accessions**, Library of Congress, April 1953. Unclassified.

BELASH, F.N., doktor tekhn.nauk, prof.; ANTONOVA, N.F., mladshiy
nauchnyy sotrudnik

Using activated silicate for regulating the structure of pulp in the flotation of iron ore. Sbor.nauch.trud. KGRI no. 21:239-246 '63. (MIRA 17:[illegible])

ANTONOVA, N.G. (Moskva, D-182, Malaya Shchukinskaya ul., d.15, kv.2)

Some problems of auto- and homotransplantation. Ortop., travm. i protez. no.9:26-31 '62.

(MIRA 17:11)

OMRBST, V.V.; ANTONOVA, N.I.

Hypotensive action of intracutaneous injections of small doses of adrenaline in hypertension. Sov.med. 21 Supplement:4 '57.
(MIRA 11:2)

1. Iz polikliniki Ust'-Kamenogorskoy oblastnoy bol'nitsy.
(HYPERTENSION) (ADRENALINE)

KURNOSOVA, L.M.; ANTONOVA, N.I.

Clinical virusological data in chronic relapsing aphthous stomatitis. Stomatologiia 36 no.5:71-74 S-O '57. (MIRA 11:1)

1. Iz otdela virusologii (zav. - prof. A.A.Smorodintsev) Instituta eksperimental'noy meditsiny AMN SSSR i kafedry terapevticheskoy stomatologii (zav. - dotsent T.T.Shkolyar) Leningradskogo meditsinskogo stomotologicheskogo instituta.
(STOMATITIS) (HERPES SIMPLEX)

ANTONOVA, N.I.

Virological and serological investigation of acute aphthous stomatitis in children Acta virol.Engl.Ed.Praha 4 no.6:383-391 N'60.

1. Department of Virology, Institute of Experimental Medicine, U.S.S.R. Academy of Medical Sciences, Leningrad and Chair of Therapeutic Stomatology of the State Medical Institute, Kalinin, U.S.S.R.

(HERPES in infancy 7 childhood)
(STOMATITIS in infancy & childhoo

ANTONOVA, N. I., assistent

Materials on the clinical aspects and treatment of acute aphthous stomatitis. Trudy KGMI no.2:63-69 '60. (MIRA 15:7)

1. Iz kafedry terapevticheskoy stomatologii - zav. kafedroy dotsent T. T. Shkolyar.

(THRUSH(MOUTH DISEASE))

SHKOLYAR, T.T., dotsent; ABAKUMOVA, Ye.A., kand.med.nauk; TSU.ROVA, N.D.; TUROBOV, V.A.; ANTONOVA, N.I.; IVANOVA, A.I.; KREKSHINA, V.Ye.; ROZHNOVA, R.A.; VINOGRADOVA, V.G.; DAVYDOVA, L.P.

Aanalysis of patients' visits and therapeutic work in the therapeutic section of a stomatologic polyclinic. Stomatologiia 41 no.5:25-29 S-O '62. (MIRA 16:4)

1. Iz kafedry terapevticheskoy stomatologii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent T.T.Shkolyar) Kalininskogo gosudarstvennogo meditsinskogo instituta.
(STOMATOLOGY) (DENTAL CLINICS)

L 12916-63 BDS/EWP(q)/EWT(m) AFFTC/ASD JD/JG

ACCESSION NR: AP3000187 S/0080/63/036/004/0818/0824

AUTHOR: Borisenko, A. I.; Artem'yev, V. I.; Antonova, N. I. 60 59

TITLE: Diffusion mobility of iron 21 in a protective coating 16 of niobium 21 and molybdenum 21

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 4, 1963, 818-824

TOPIC TAGS: niobium, niobium diffusion coating, molybdenum, molybdenum diffusion coating, glass coating, iron diffusion, thermal expansion coefficient

ABSTRACT: The diffusion of Fe in two-phase systems of Nb-glass and Mo-glass has been studied by the method of tagged atoms (Fe^{59}) in an attempt to clarify the effect of Fe on the protective ability of glass coatings. In the preliminary experiments the parameters of Fe diffusion in individual components were determined. Films of Fe^{59} were deposited on specimens of 366 glass (58% SiO_2, 20% Ba_2O_3, 5.0% each Al_2O_3 and CoO, 6% TiO_2, and 3.0% each ZrO_2 and BeO) and sintered 99.7%-pure Mo and 99.8%-pure Nb, which were then held at 1000—1200C (Nb and Mo) or 700—900C (glass) for 10-100 hr in argon at 150—180 mm Hg. It was found that the temperature dependence of the coefficient of Fe diffusion in Nb and Mo is exponential and is expressed by the equations $D = 1.6 \times 10^{-3} \exp [54,000/RT]$ for Mo and

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ACCESSION NR: AP3000187

$D = 3.0 \times 10^{-3} \exp [51,000/RT]$ for Nb, where 54,000 and 51,000 are the values of the activation energy in cal/g-atom. The low values of the activation energy appear to be a result of diffusion proceeding predominantly along the grain boundaries, which is usual in sintered Nb and Mo. The diffusion of Fe^{59} in the 366 glass in the 700—900C range was found to be negligible. In the second series of experiments the 366 glass coating with uniformly distributed Fe^{59} was fused on Nb and Mo specimens at 1380—1420C in an argon atmosphere, and the coated specimens were annealed for 45 hr at 1200C in argon at 160 mm Hg. In both cases, the Fe atoms were found to move toward the glass-metal interface. Stresses resulting from a difference in the coefficients of thermal expansion (Nb, 84×10^{-7}; Mo, 52×10^{-7}; 366 glass, 30×10^{-7} in the 25—600C range) intensify the Fe migration. In the case of Nb almost all the Fe is concentrated in the glass layer adjacent to the Nb with very little Fe migration into the surface layer of Nb, owing to microcracks originated by thermal stresses. No microcracks are formed in coating on Mo, which facilitates formation of a continuous glass-metal interface through which Fe atoms readily diffuse into Mo. Orig. art. has: 2 tables, 4 figures, and 10 formulas.

ASSOCIATION: none

Card 2/2

VARFOLOMEYEVA, Ye.K.; ZOLOTOVA, Z.G.; YEGOROVA, O.N.; ANTONOVA, N.K.,
(g.Ul'yanovsk).

Growing crystals from solutions. Khim. v shkole 11 no.1:58-62
Ja-F '56. (Crystallography) (MLRA 9:2)

S/139/60/000/005/002/031
E073/E135

AUTHORS: Savitskiy, K.V., Paskal', Yu.I., and Antonova, N.N.

TITLE: On Certain Features of the Plastic Deformation of Lead and Tin during Cyclic Heat Treatment

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, No. 5, pp 8-12 (+ 2 plates)

TEXT: The aim of the paper was to elucidate phenomena which are characteristic for thermal fatigue and the possible occurrence of plastic deformation of lead and tin during cyclic heat treatment. Specimens of 99.98% pure lead and 99.90% pure tin were cut from pressed rods. The lead specimens were rolled into 2.5 mm thick strip, whilst the tin specimens were cylindrical, 7 mm in diameter with a facet ground along the generating line. The length of the specimens was 3.5 mm. After annealing for two hours (Pb at 200 °C, Sn at 150 °C) the specimens were polished as follows. The lead specimens were polished chemically in a mixture of perhydrol and acetic acid, whilst the tin specimens were polished electrolytically in a mixture of chloric and acetic acid. In both metals the grain dimensions were between 600 microns and 1.5-2 mm. The heating was in paraffin or

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S/139/60/000/005/002/031
E073/E135

On Certain Features of the Plastic Deformation of Lead and Tin during Cyclic Heat Treatment

colophony to 200 °C (lead) and 150 °C (tin); the cooling was in acetone at +10 °C and water at 0 °C (regime I) or in liquid nitrogen (regime II) and this was followed by heating in acetone at +10 °C after the cooling in liquid nitrogen (regime III). The cooling and the heating were by simple submersion. The selected holding times were such that the entire volume of the specimen should attain the temperature of the medium. The duration of the cycle at various regimes was between 40 sec and 1 min. The surface of the polished specimen was studied on a microscope and on a microinterferometer. 35 thermal cycles according to regimes I and II and up to 300 cycles according to regime III were carried out. During further cyclic heat treatment the observations became difficult due to corrosion. Between 5 and 10 specimens were used for each regime. It was found that as a result of heat treatment characteristic features of plastic deformation (inter-granular shifts) occur in lead. In tin the role of the grain boundaries is very great; the recrystallization

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S/139/60/000/005/002/031
E073/E135

On Certain Features of the Plastic Deformation of Lead and Tin during Cyclic Heat Treatment

processes reduce the magnitude of temperature stresses which occur during heat treatment. Formation of grain boundary networks has been elucidated. In further experiments with cyclic heat treatment of lead containing 1.5% Sb it was found that the hardness of this alloy increases rapidly as a result of cyclic heat treatment. This is attributed to the acceleration of the process of dispersion hardening under the effect of temperature stresses.

There are 14 figures and 12 references: 5 Soviet, 1 German, and 6 English including 1 translation.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V.V. Kuybysheva
(Siberian Institute of Physics and Technology at Tomsk State University imeni V.V. Kuybyshev)

Card 3/3

SUBMITTED: November 27, 1959

USSR/Human and Animal Physiology (Normal and Pathological). T-3
Blood. Blood Groups.

Abs Jour	:	Ref Zhur - Biol., No 16, 1958, 74654
Author	:	Antonova, N.N.
Inst	:	Turkmenian Agricultural Institute.
Title	:	Study of Blood Groups of Arabian Camels.
Orig Pub	:	Turkm. s.-kh. in-ta, 1956, 8, 71-79.
Abstract	:	In 288 camels (C) there were 7117 reactions of hemagglutination. With cross-matching reactions of heterohemagglutination between C and man, horse or donkey, heteroagglutinogenes and heteroagglutinins were found in the blood of the C. The cross-matching reaction of isohemagglutination always was negative and could not serve as the basis for the development of blood groups in the C and of the characteristic of its isohemagglutination properties.

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ANTONOVA, N. N. Cand Vet Sci -- (diss) "Study of the Blood Groups of Single-Hump Camels." Ashkhabad, 1957. 19 pp 22 cm. (Min of Agriculture USSR, Turkman Agricultural Inst im M. I. Kalinin, Chair of Pathological Physiology and Surgery), 135 copies (KL, 26-57, 111)

USSR / Diseases of Farm Animals. General Problems. R-1

Abs Jour : Ref Zhur - Biol., No. 17, 1958, No. 78894

Author : Antonova, N. N.
Inst : Turkmenian Agriculture Institute
Title : On the Problem of Blood Transfusion in Arabian Camels.

Orig Pub : Tr. Turkm. s.-kh. in-ta, 1957, 9, 249-258

Abstract : No abstract given.

Card 1/1

POPOV, L.N., kand. tekhn. nauk, st. nauchn. sotr.; ANTONOVA, N.N., inzh., red.;

[Using spent soap lye as a plasticizer in mortars] Primenenie podmyl'nogo shcheloka v kachestve plastifikatora stroitel'nykh rastvorov; iz opyta Glavmosstroia. Moskva, Gosstroiizdat, 1963. 39 p. (MIRA 16:8)

1. Nauchno-issledovatel'skiy institut Glavnogo upravleniya po zhilishchnomu i grazhdanskomu stroitel'stvu v g.Moskve (for Popov).

(Alkalies) (Plasticizers)

SOVALOV, Iona Grigor'yevich, kand. tekhn. nauk; KHAYUTIN, Yuliy Germanovich; ANTONOVA, N.N., inzh., red.

[Methods of activating cement and the effect of activation on the properties of cement] Metody aktivizatsii tsementov i vliianie aktivizatsii na svoistva betonov. Moskva, 1963. 39 p. (MIRA 17:5)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' laboratorii tekhnologii opalubochnykh, armaturnykh betonnykh i zhelezobetonnykh rabot, sborno-monolitnykh konstruktsiy Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Sovalov). 3. Glavnyy tekhnolog laboratorii tekhnologii opalubochnykh armaturnykh betonnykh i zhelezobetonnykh rabot, sborno-monolitnykh konstruktsiy Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Khayutin).

NEYMAN, Yan Markovich, inzh.; MOSYAGIN, Dmitriy Semenovich, inzh.; MESKIN, Boris Yefimovich; ANTONOVA, N.N., inzh.,

[Mechanization and automation of the processes of manufacturing heat insulating materials in renovated brick plants; based on materials of the Main Administration of the Building Materials Industry in Moscow Province] Iz opyta mekhanizatsii i avtomatizatsii protsessov proizvodstva teploizoliatsionnykh materialov na rekonstruirovannykh kirpichnykh zavodakh; po materialam Konstruktorsko-tekhnologicheskoi kontroy Glavmosoblstroimaterialov. Moskva, Gosstroiizdat, 1962. 38 p.
(MIRA 17:3)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Nachal'nik otdela mekhanizatsii i avtomatizatsii Konstruktorsko-tekhnicheskoy kontory Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley(for Neyman). 3. Rukovoditel' sektora tekhnicheskoy informatsii Konstruktorsko-tekhnologicheskoy kontory Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Mosyagin). 4. Sotrudnik sektora tekhnicheskoy informatsii Konstruktorsko-tekhnologicheskoy kontory Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Meskin).

DURAKAS, Anton Iosifovich, inzh., st. nauchn. sotr.; PARKHOMOVSKIY, Arkadiy Semenovich; KRIVOSHEYEV, Petr Ivanovich; ANTONOVA, N.N., inzh., red.

[Precast monolithic prestressed floors for multistory industrial buildings; practices of the Scientific Research Institute for Structural Elements of the Academy of Construction and Architecture of the U.S.S.R. and the "L'vovpromstroi" Trust] Sbornomonolitnye predvaritel'no napriazhennye nastily perekrytii mnogoetazhnykh promyshlennykh zdanii; opyt Nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsii ASiA USSR i tresta "L'vovpromstroi," Moskva, Gosstroiizdat, 1963. 22 p. (MIRA 17:5)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury Ukr.SSR (for Durakas). 3. Glavnyy inzhener tresta "L'vovpromstroy" (for Parkhomovskiy). 4. Starshiy inzhener Nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury Ukr.SSR (for Krivosheyev).

DAVYDOV, Petr Fedorovich; AFANASENKO, Mikhail Yefimovich; ANTONOVA, N.N., inzh., red.

[Anticorrosive protection by metal spraying of steel insertion pieces and weld joints in large-panel buildings]Antikorroziinaia zashchita stal'nykh zakladnykh detalei i svarnykh soedinenii v krupnopanel'nykh zdaniiakh metallizatsiei; opyt kombinata zheleznodorozhnykh konstruktsii No.2 Glavmospromstroimaterialov. Moskva, Gosstroiizdat, 1962. 120 p. (MIRA 16:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Nachal'nik tekhnicheskogo otdela kombinata zhelezobetonnykh konstruktsiy No.2 Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Davydov). 3. Glavnyy inzhener po polnosbornomu domostroyeniyu i zhelezobetonu Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Afanasenko)

(Concrete reinforcements--Corrosion)
(Metal spraying)

BAYDAL, K.P.; ANTONOVA, N.N., inzh., red.

[Automation and mechanization in the production of ceramics; collection of specifications of the proposals of efficiency promoters. From the experiences of the Cheremushki, Taganrog and Rostov Plants] Avtomatizatsiia i mekhanizatsiia v proizvodstve keramicheskikh izdelii; sbornik opisanii ratsionalizatorskikh predlozhenii. Iz opyta Cheremushkinskogo, Taganrogskogo i Rostovskikh zavodov. Moskva, Gosstroiizdat, 1962. 23 p. (MIRA 17:3)

1. Starshiy inzhener tekhnicheskogo otdela Gosudarstvennogo respublikanskogo instituta po proyektirovaniyu promyshlennosti stroitel'nykh materialov RSFSR (for Baydal).

BABICHEV, Zinoviy Vasil'yevich, inzh.; KOKOREV, Sergey Ivanovich, inzh.; ANTONOVA, N.N., inzh., red.

[Manufacturing and using reinforced cellular concrete panels for walls of industrial buildings; based on materials of the Scientific Research Institute of the Construction Industry of Bashkiria] Izgotovlenie i primenenie armopenobetonnykh panelei dlia sten promyshlennykh zdanii; po materialam BashNIIStroia. Moskva, Gosstroiizdat, 1963. 20 p. (MIRA 17:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' laboratoriyey krupnopanel'nykh konstruktsiy Bashkirskogo nauchno-issledovatel'skogo instituta po stroitel'stvu(for Babichev). 3. Rukovoditel' sektora yacheistykh betonov Bashkirskogo nauchno-issledovatel'skogo instituta po stroitel'stvu (for Kokorev).

ANTONOVA, N.B., inzh., red.

[Preparing elements and erecting precast reinforced concrete cylindrical structures; precast smokestacks and precast cement bins] Izgotovlenie elementov i montazh sbornykh zhelezobetonnykh tsilindricheskikh [illegible]; sbornaia dymovaia truba i silosy [illegible]. Moskva, Gosstroiizdat, 1963. 20 p. [illegible]

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

ARSEN'YEV, Aleksandr Sergeyevich, inzh.; [illegible], [illegible], [illegible], red.

[Concreting under winter conditions with electrically heated mixes; according to materials of the Novokuznetsk Section of the West-Siberian Branch of the Academy of Construction and Architecture of the U.S.S.R.] Betonirovanie v zimnikh usloviyakh s elektropodogrevom betonnoy smesi; po materialam Novokuznetskogo otdeleniya Zapadno-Sibirskogo filiala ASiA SSSR. Moskva, Gosstroyizdat, 1963. 33 p. (MIRA 17:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' laboratorii stroitel'nykh materialov Novokuznetskogo otdeleniya Zapadno-Sibirskogo filiala Akademii stroitel'stva i arkhitektury SSSR (for Arsen'yev).

KAKHANOVICH, I.M.; KUBASSKIY, S.I., inzh., glav. red.; ANTONOVA,
N.N., inzh., red.

[Completely prefabricated bathrooms; practices of the Danilov Plant of the Main Administration for Industrial Building Materials in the City of Moscow] Proizvodstvo sanitarno-tekhnicheskikh kabin polnoi zavodskoi gotovnosti; opyt Danilovskogo zavoda Glavmospromstroimaterialov. Moskva, Gosstroiizdat, 1963. 28 p. (MIRA 17:5)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Direktor Danilovskogo alebastrovogo zavoda Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Kakhanovich). 3. Danilovskiy alebastrovyy zavod Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Kubasskiy).

IVANOVSKIY, Oleg Sergeyevich; MYAZIN, Nikolay Nikolayevich;
ANTONOVA, N.N., inzh., red.

[Preparation of gas sand-lime panels and their erection in apartment houses of series 1-467-4; practices of the Reinforced Concrete Products Plant No.1 of the "Stroidetal'" Trust and the No.42 Construction and Assembling Administration (Voronezh)] Izgotovlenie gazosilikatnykh panelei i montazh iz nikh domov serii 1-467-4; opyt zavoda zhelezobetonnykh izdelii no.1 tresta "Stroidetal'" i Stroitel'no-montazhnogo upravleniia No.42 (g.Vororezh). Moskva, Gosstroiizdat, 1963. 30 p. (MIRA 17:9)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Nachal'nik tekhnicheskogo otdela Voronezhskogo zavoda zhelezobetonnykh izdeliy No.1 tresta "Stroydetal'" (for Ivanovskiy).
3. Nachal'nik gazosilikatnogo tsekha Voronezhskogo zavoda zhelezobetonnykh izdeliy No.1 tresta "Stroydetal'" (for Myazin).

ZIMIN, Vyacheslav Aleksandrovich, inz.; LEVIN, Samuil Samsonovich, inzh.; LEVCHENKO, Klavdiya Pavlovna, inzh.; SERGEYEV, Viktor Viktorovich, st. inzh.; ANTONOVA, N.N., inzh., red.

[Pneumatic-percussive boring of blast holes in stone quarries; experience of the Shartash Granite Quarry of the "Uralnerud" Trust] Pnevmoudarnoe burenie vzryvnykh skvazhin na kamennykh kar'erakh; opyt Shartashskogo granitnogo kar'era tresta "Uralnerud." Moskva, Stroiizdat, 1964. 24 p. (MIRA 18:4)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Zaveduyushchiy laboratorii burovoy tekhniki Nauchno-issledovatel'skogo i proyektno-konstruktorskogo instituta gornogo i obogatitel'nogo mashinostroyeniya, g. Sverdlovsk (for Zimin). 3. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo mashinostroyeniya, G. Sverdlovsk (for Levchenko, Sergeyev).

VOZNESENSKIY, Vitaliy Anatol'yevich, inzh.; ANTONOVA, N.N., inzh., red.

[Device for determining the placement adaptability and cohesion qualities of mixes during the manufacture of mesh-reinforced concrete] Pribor dlia opredeleniia udobukladyvaemosti i sviaznosti smesi pri proizvodstve armotsementa. Moskva, Gosstroiizdat, 1963. 21 p. (MIRA 17:9)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

PROKHOROV, Mikhail Andreyevich, inzh.; MIKHEYEV, Yakov Fedorovich;
ANTONOVA, N.N., inzh., red.

[Mobile automatic steam chambers for heat treating large reinforced concrete products; practices of the "Promstroi" Trust in the city of Penza] Peredvizhnye avtomaticheskie proparochnye kamery dlia termoobrabotki krupnogabaritnykh zhelezobetonnykh izdelii; opyt tresta "Promstroi" g. Penzy. Moskva, Stroiizdat, 1964. 15 p. (MIRA 18:5)

1. Starshiy prepodavatel' kafedry fiziki i elektrotekhniki Penzenskogo inzhenerno-stroitel'nogo instituta (for Prokhorov).
2. Nachal'nik proizvodstvenno-tekhnicheskogo otdela tresta "Promstroy" goroda Penzy (for Mikheyev).

ZHUKOV, Aleksandr Vasil'yevich; ANTONOVA, N.N., inzh., red.

[Trolley conveyor for preparing reinforced concrete products; practices of plants manufacturing reinforced concrete products in the Donets Economic Region of the Ukraine] Telezhechnyi konveier dlia izgotovleniia zhelezobetonnykh izdelii; opyt zavodov zhelezobetonnykh izdelii Donetskogo ekonomicheskogo raiona Ukrainskoi SSR. Moskva, Stroiizdat, 1964. 24 p. (MIRA 18:4)

1. Glavnyy inzhener Upravleniya stroymaterialov i konstruktsiy Gosstroya USSR (for Zhukov).

PEREYASLAVTSEV, N.A., inzh.; KISILIYEV, M.I., inzh.; [illegible]OVA, N.N., inzh., red.

[SMP-4 construction and assembly gun] Stroitel'no-montazhnyi pistolet SMP-4. Moskva, Stroiizdat, 1964. 15 p. (MIRA 18:11)

OSTROVSKIY, Grigoriy Aleksandrovich, inzh.; ANTONOVA, N.N., inzh., red.

[Automation of the transportation of concrete fillers; experience of the Reinforced Concrete Products Plant No.1 in Tashkent] Avtomatizatsiia transportirovaniia zapolnitelei betona; opyt zavoda zhelezobetonnykh izdelii No.1 v Tashkente Moskva, Stroiizdat, 1964. 22 p. (MIRA 18:8)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

KATTS, Emmanuil Genrikhovich, kand. tekhn. nauk; TSEYTLIN, Seren Yudovich, kand. tekhn. nauk; MILOVIDOV, Konstantin Ivanovich, inzh.; YARMOLINSKIY, Vladimir Matveyevich, inzh.; ANTONOVA, N.N., inzh., red.

[12 m. reinforced concrete crane beams with rod reinforcement stressed by the electrothermal method; practices of the All-Union Research Institute for Reinforced Concrete and Plant No.18 for Reinforced Concrete Products of the Main Administration for Building Materials of the City of Moscow] Zhelezobetonnye podkranovye balki dlinoi 12 M so sterzhnevoi armaturoi, napriagaemoi elektrotermicheskim metodom; opyt raboty VNIIzhelezobetona i zavoda zhelezobetonnykh izdelii no.18 Glavmospromstroimaterialov. Moskva, Stroiizdat, 1964. 31 p. (MIRA 18:5)

1. Zaveduyushchiy laboratoriyey sbornykh zhelezobetonnykh konstruktsiy Vsesoyuznogo nauchno-issledovatel'skogo instituta zavodskoy tekhnologii sbornykh zhelezobetonnykh konstruktsiy i izdeliy (for Katts). 2. Zaveduyushchiy sektorom inzhenernykh konstruktsiy **Vsesoyuznogo** nauchno-issledovatel'skogo instituta zavodskoy tekhnologii sbornykh zhelezobetonnykh konstruktsiy i izdeliy (for TSeytlin). 3. Glavnyy konstruktor sektora inzhenernykh konstruktsiy Vsesoyuznogo nauchno-issledovatel'skogo instituta zavodskoy tekhnologii sbornykh zhelezobetonnykh konstruktsiy i izdeliy (for Milovidov).

ANTONOVA, N.N., inzh., red.

[Devices for loading and conveying loose building materials] Ustroistva dlia razgruzki i transportirovaniia sypuchikh stroitel'nykh materialov. Moskva, Stroiizdat, 1964. 24 p. (MIRA 18:11)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. TSentral'noye byuro tekhnicheskoy informatsii.

L 00480-66 EWP(e)/EPA(s)-2/EWT(m)/EWP(i)/EWG(v)/EPA(w)-2/T/EWP(b) WH
ACCESSION NR: AP5020557 UR/0294/65/003/004/0555/0561
44,55 621.315.612:536.45

AUTHOR: Kostyukov, N. S.; Antonova, N. P. 44,55

36 15,44,55

TITLE: Some questions on the behavior of ceramic insulating materials at high temperatures

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 4, 1965, 555-561

TOPIC TAGS: high temperature ceramic materials, insulating materials, thermal diffusion, aluminum oxide, iron oxide/MG-12 zn ceramic material, MB-12 ch ceramic material, MZA ceramic material

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ABSTRACT: The thermal diffusion effect was studied for types MG-12 zv, MG-12 ch, and MZA porcelain materials, whose chemical compositions are shown in a table. Samples were prepared in the form of rods 20 mm in diameter and 120-150 mm long by conventional ceramic technology. To study the thermal diffusion effect, the end of one rod was placed in a furnace and heated to 1360C and a second rod was at room temperature. The samples were held at these temperatures for period of time varying from a few tens of hours to 600-900

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ACCESSION NR: AP5020557

hours, and were then cooled rapidly (1 hour). The temperature gradient in the middle of the sample was 150 degrees/cm, and was determined from the temperature distribution along the sample. A sample, after heat treatment, was cut into 25 equal pieces perpendicular to its axis. The chemical composition of each piece of the rod was determined by chemical and spectral analysis. Experimental results permit the following conclusions. For porcelain materials MZA, MG-12 zv, and MG-13 ch, the thermal diffusion effect with respect to most of the oxides entering into the composition of the materials does not exceed the experimental error. For aluminum oxide, the magnitude of the thermal diffusion slightly exceeds the experimental error. For ferric oxide, thermal diffusion along the surface of the porcelain is directed toward the colder parts. Orig. art. has: 4 figures and 4 tables

ASSOCIATION: None

SUBMITTED: 15Oct64 ENCL: 00 SUB CODE: MT, TD

NR REF SOV: 004 OTHER: 011

Card 2/2

KOSTYUKOV, N.S.; ANTONOVA, N.P.; DMITRIYEV, V.I.

Soret effect in electrical porcelain. Zhur. fiz. khim. 39
no.9:2175-2177 S '65. (MIRA 18:10)

1. Moskovskiy gosudarstvennyy nauchno-issledovatel'skiy
elektrokeramicheskiy institut.

TSEL', V.F., prof.; ANTONOVA, N.S.

Plastic surgery with pedicle flap in ulcers of the leg and foot.
Ortop.travm. i protez. 20 no.2:19-21 F '59. (MIRA 12:12)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. G.M. Davydov) Arkhangel'skogo meditsinskogo instituta.

(FOOT, ulcers
skin transpl. with pedicle flap (Rus))
(LEG, ulcers
same)
(SKIN TRANSPLANTATION, in various dis.
pedicle flap in foot & leg ulcers (Rus))

ANTONOVA, O.I., red.; FRIDKIN, A.M., tekhn.red.

[Handbook on precast reinforced concrete towers for 35 and 110 kv. transmission lines] Spravochnik po sbornym zhelezobetonnym oporam vozdushnykh linii elektroperedachi napriazheniem 35 i 110 kv. Moskva, Gos.energ. izd-vo. No.1 [Straight-through towers] Promezhutochnye opory. 1957. 50 p. (MIRA 12:1)

1. Vsesoyuznyy gosudarstvennyy institut po proyektirovaniyu teplovykh elektrostantsiy.
(Electric lines--Poles)

KRAUSH, L.Ya.; ANTONOVA, O.TS.

Photometric control of the manufacture of color prints. Usp.nauch.fot. no.4:307-315 '55. (MIRA 9:4)
(Color photography) (Photometry)

S/137/61/000/011/111/123
A060/A101

AUTHORS: Shcherbakov, B. G., Yurkevich, Yu. N., Antonova, R. A.

TITLE: Determination of copper and zinc in molybdenum concentrate

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 2, abstract 11K6 ("Sb. tr. Vses. n.-i. in-t tverdykh splavov", 1960, no. 3, 31 - 36)

TEXT: A polarographic method utilizing alkali background is proposed for determining Cu and Zn in Mo-concentrate. 0.5 g of the concentrate is decomposed in concentrated HNO_3, is converted into sulfates by vaporization with H_2SO_4 (1:1) to SO_3 vapors. The contents of the retort are diluted with water and the hydroxides of Fe and Cu are precipitated by a 20% solution of NaOH. The hydroxide precipitate is dissolved and reprecipitated, collecting the filtrates into a measuring flask. The quantity of alkali in the solution should be about 1 normal. 0.5 - 1.0 g of citric acid is added to the solution, the mixture is brought up to the mark and the Zn is determined by the method of additions. The hydroxides of Fe and Cu are dissolved in HCl (1:1) and the Fe is separated by NH_4OH, collecting the filtrate into a 100-ml flask. To the solution one adds 10 ml HCl, neutralizes with NH_4OH the Congo indicator, adding an excess of 10 ml NH_4OH. The Cu is deter-

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A060/A101

Determination of copper and...

mined by the method of additions. The polarographing of Zn is carried on from 1.05 v, and that of Cu from 0.18 v.

B. Melent'yev

[Abstracter's note: Complete translation]

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ANTONOVA, R.A.; BARKHUDAROV, E.M.; ZHVANIYA, B.P.; ROSTOMASHVILI, G.I.;
TSINTSADZE, N.L.

Interaction of shock waves. Zhur. tekh. fiz. 33 no.9:1137-1138 S '63. (MIRA 16:11)

ANTONOVA, R.I.

Forms and methods for the reduction of industrial traumatism by surgeons of the medical and sanitary section of the Verkh-Isetskoye Metallurgical Plant. Zdrav. Ros. Feder. 4 no.1:14-17 Ja '60. (MIRA 13:5)

1. Iz Sverdlovskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - kand.med.nauk Z.P. Lubegina) i mediko-sanitarnoy chasti Verkh-Isetskogo metallurgicheskogo zavoda (glavnyy vrach M.K. Terent'yeva).
(SVERDLOVSK--METALLURGY--ACCIDENTS)

ANTONOVA, R.I.; FISENKO, N.Ye.

Preliminary results of draining a section of the southern Sinel'nikovo experimental underground coal gasification station. Nauch. trudy VNIIPodzemgaza no.9:43-47 '63. (MIRA 16:11)

1. Gidrogeologicheskaya laboratoriya Vsesoyuznogo nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii ugley.

ANIKIN, Anatoliy Mikhaylovich; ANTONOVA, Roza Petrovna; BAKHTEYAROV, Vladimir Dmitriyevich; USANOV, Petr Alekseyevich, retsenzent, otv.red.; BURKOV, Vasiliy Ivanovich, retsenzent; PITERMAN, Ye.L., red.izd-va; KORNYUSHINA, A.S., tekhn.red.

[Building prefabricated wooden houses] Zavodskoe dereviannoe domostroenie. Moskva, Goslesbumizdat, 1960. 230 p. (MIRA 13:9)

(Buildings, Prefabricated) (Building, Wooden)

ANTONOV, V.A.; ANTONOVA, R.S.

March thunderstorms in the Central Black Earth Region. Meteor. i gidrol. no.2:40-41 F '61. (MIRA 14:1)
(Central Black Earth Region--Thunderstorms)

KHORBENKO, Ivan Grigor'yevich; SHEIN, A.S., doktor fiz.-mat. nauk,
retsenzent; ANTONOVA, S.D., red.

[In the world of inaudible sounds] V mire neslyshimykh zvukov.
Moskva, Mashinostroenie, 1964. 120 p. (MIRA 17:4)

KARDASHOV, David Alekseyevich; KUDISHINA, Vera Alekseyevna;
SHUMSKAYA, Nina Ivanovna; CHERNOV, M.M., kand. tekhn.
nauk, retsenzent; ANTONOVA, S.D., red.

[Epoxy resins and safety measures to be applied in their handling] Epoksidnye smoly i tekhnika bezopasnosti pri rabote s nimi. Moskva, Mashinostroenie, 1964. 135 p.
(MIRA 17:11)

ANTONOVA, S.F.; VASILENKO, S.S.; KAGANSKIY, M.G.; KAMINSKIY, D.L.

Positron decay of Ir^{192}. Zhur.eksp.i teor.fiz. 38 no.2:379-383 F '60.
(MIRA 14:5)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR.
(Positrons) (Iridium—Decay)

21(8),24(7)

AUTHORS: [redacted] Vasilenko, S. S., Kaganskiy, M. G., Kaminskiy, D. L.

SOV/56-37-3-13/62

TITLE: The Positron Spectrum of Eu^{152} and Eu^{152m}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 37, Nr 3(9), pp 667-671 (USSR)

ABSTRACT: In connection with the well-known considerable variation of the shape of the nucleus in the case of a change of the neutron number in the nucleus from N = 88 to N = 90, an investigation of the radioactive Eu^{152} and its isomer Eu^{152m} in the decay of which ${}_{62}Sm_{90}^{152}$ and ${}_{64}Gd_{88}^{152}$ are formed, is of interest. The present paper deals with the experimental investigation of the positron spectrum of these isotopes. The experimental order is schematically represented by figure 1, and is discussed in the introduction. For the purpose of measuring the spectrum, a magnetic sector spectrometer with double focusing and low background was used. Results are shown by figure 3. The curve has two salient points, one at $H\varrho$ = 1920 G.cm and one at 2460 G.cm, which are caused by the internal pair

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conversion of γ-quanta having the energies 1280 and 1409 kev. Also partial β^+-spectra are plotted (β^+-groups (713 ± 3) kev and (470 ± 10) kev); the intensities are $1.4\cdot10^{-4}$ and $5\cdot10^{-5}$ β^+ per decay. Figure 4 shows the decay scheme. The β^+-decay of Eu^{152} takes place to the first (2^+) and the second (4^+) excited states of Sm^{152}; the half life of β^+-radiation is given as amounting to about 10 a. The formation of Sm^{152} in the ground- and first excited state occurs in the positron decay of the Eu^{152m} isomer. The end point energies of the partial spectra are 890 and 770 kev (intensities: $6\cdot10^{-5}$ and $2\cdot10^{-5}$ per decay). The excitation energy of the Eu^{152} isomer determined from the difference between the end point energies is given as amounting to 55 ± 6 kev. From the internal pair conversion spectra the conversion coefficients Γ and the multipolarities of a number of γ-transitions are determined. Figure 5 shows the dependence of the pair conversion coefficient on the energy and the multipolarity of the transition. The value $\Gamma = (1.6 \pm 0.2) \cdot 10^{-4}$ corresponds to a E1-transition, the value $\Gamma = (0.8 \pm 0.2) \cdot 10^{-4}$ corresponds to a transition with 1280 kev (E1). Further details are discussed. Figure 6 shows the positron spectrum of Eu^{152m}, which has a half-life of only 9.2 h. The value $\Gamma = (0.6 \pm 0.3) \cdot 10^{-4}$ corresponds to a E2-transition (1386 kev). In a table the results obtained by the authors are compared with those obtained by Alburger et al. (Ref 3). Agreement is good. The authors finally thank Professor L.A. Sliv for his interest. There are 7 figures, 1 table, and 8 references, 4 of which are Soviet.

SUBMITTED: April 18, 1959

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